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| **CHARACTERISTICS** |
| Morphology | Non-sporulating, aerobic, and Gram-negative rods that form moist, metallic colonies when plated. These colonies are usually pigmented yellow. They form biofilms and have efflux pumps in their membranes that significantly decrease the effectiveness of antibiotics. |
| Disease | Biliary sepsis, emerging pathogen in cystic fibrosis individuals. |
| Zoonosis | Unknown. |

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| **HEALTH HAZARDS** |
| Host Range | B. contaminans is found is a large range of environments. Soil, plants, sheep with mastitis, nasal sprays and human built water reservoirs. |
| Modes of Transmission | Unknown. Highly transmissible between susceptible patients. |
| Signs and Symptoms | Colonization, pneumonia, septicemia, and even a urinary tract infection. |
| Infectious Dose | Unknown. |
| Incubation Period | Unknown.  |

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| **MEDICAL PRECAUTIONS/TREATMENT** |
| Prophylaxis | None available. |
| Vaccines | None available. |
| Treatment | piperacillin-tazobactam, ceftazidime, amikacin, colistin and trimethoprim-sulfamethoxazole. |
| Surveillance | Monitor for symptoms. |
| MSU Requirements | Report any exposures. |

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| **LABORATORY HAZARDS** |
| Laboratory Acquired Infections (LAIs)  | None have been reported. |
| Sources | Cultures, frozen stocks, other samples described in IBC protocol. |

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| **RISK GROUP & CONTAINMENT REQUIREMENTS** |
| Risk Group 2 | Agents that are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available. |
| BSL2 | For all procedures involving suspected or known infectious specimen or cultures. |
| ABSL2 | For all procedures utilizing infected animals. |

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| **VIABILITY** |
| Disinfection | Susceptible to 1:10 bleach:water, 70 % ethanol, 3% hydrogen peroxide |
| Inactivation | Inactivated by moist heat (15 minutes at 121oC) and dry heat (1 hour at 160-170oC). |
| Survival Outside Host | Unknown. |

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| **SUPPLEMENTAL REFERENCES** |
| BMBL | <https://www.cdc.gov/labs/BMBL.html>  |
| CDC | https://www.cdc.gov/hai/organisms/bcepacia.html |
| NIH Guidelines | <https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf>  |

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| **SPILL PROCEDURES** |
| Small | Notify others working in the lab. Remove PPE and don new PPE. Cover area of the spill with absorbent material and add fresh 1:10 bleach:water. Allow 20 minutes (or as directed) of contact time. After 20 minutes, cleanup and dispose of materials. |
| Large | * Immediately notify all personnel in the lab and clear all personnel from the area. Remove any contaminated PPE/clothing and leave the lab.
* Secure the area by locking doors, posting signage and guarding the area to keep people out of the space.

For assistance, contact MSU's Biosafety Officer (406-994-6733) or Safety and Risk Management (406-994-2711). |

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| **EXPOSURE PROCEDURES** |
| Mucous membrane | Flush eyes, mouth, or nose for 5 minutes at eyewash station. |
| Other Exposures | Wash area with soap and water for 5 minutes. |
| Reporting | Immediately report incident to supervisor, complete a [First Report of Injury](https://firstreportinjury.mus.edu/) form, and submit to Safety and Risk Management. |
| Medical Follow-up | **During business hours:**Bridger Occupational Health 3400 Laramie Drive Weekdays 8am -6pm. Weekends 9am-5pm406-577-7674**After business hours:**Bozeman Deaconess Hospital Emergency Room915 Highland Blvd |

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| **PERSONAL PROTECTIVE EQUIPMENT (PPE)** |
| Minimum PPE Requirements | Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants |
| Additional Precautions | Additional PPE may be required depending on lab specific SOPs and IBC Protocol. |